

10/687,208

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 31025-83-9/rn

L3 1 31025-83-9/RN

=> d

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 31025-83-9 REGISTRY

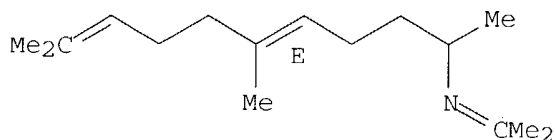
CN 4,8-Decadienylamine, N-isopropylidene-1,5,9-trimethyl-, (E)- (8CI) (CA INDEX NAME)

FS STEREOSEARCH

MF C16 H29 N

LC STN Files: CA, CAPLUS

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 352311-16-1/rn

L4 1 352311-16-1/RN

=> d

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 352311-16-1 REGISTRY

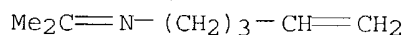
CN 4-Penten-1-amine, N-(1-methylethylidene)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C8 H15 N

SR CA

LC STN Files: CA, CAPLUS, CASREACT



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>

10/687,208

=> s 161300-04-5/rn

L1 1 161300-04-5/RN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 161300-04-5 REGISTRY

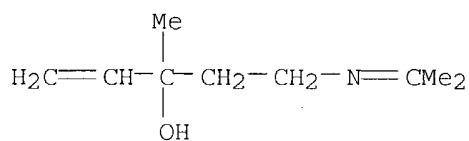
CN 1-Penten-3-ol, 3-methyl-5-[(1-methylethylidene)amino]- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C9 H17 N O

SR CA

LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 126385-60-2/rn

L2 1 126385-60-2/RN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 126385-60-2 REGISTRY

CN 4-Dodecenoic acid, 2-[(diphenylmethylene)amino]-4-(1-methylethenyl)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH

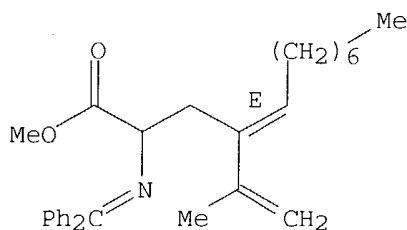
MF C29 H37 N O2

SR CA

LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT

(\*File contains numerically searchable property data)

Double bond geometry as shown.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

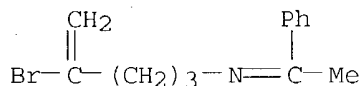
10/687,208

# STM STRUCTURE SEARCH

4.23-04

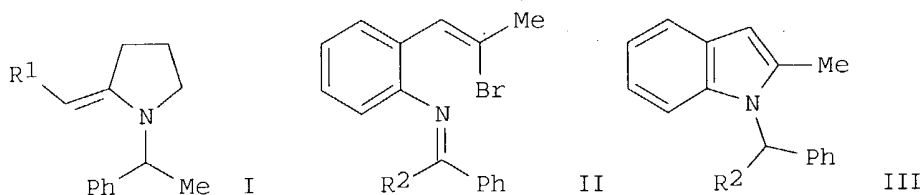
=> d ibib abs hitstr 1-21

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2004 ACS on STM  
ACCESSION NUMBER: 2003:827748 CAPLUS  
DOCUMENT NUMBER: 140:59492  
TITLE: Free radical-mediated vinyl amination: a mild, general pyrrolidinyl enamine synthesis  
AUTHOR(S): Nugent, Benjamin M.; Williams, Amie L.; Prabhakaran, E. N.; Johnston, Jeffrey N.  
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405-7102, USA  
SOURCE: Tetrahedron (2003), 59(45), 8877-8888  
CODEN: TETRAB; ISSN: 0040-4020  
PUBLISHER: Elsevier Science B.V.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB The complete scope of free radical-mediated vinyl amination is described, using 5-exo-trig cyclizations of vinyl radicals to the nitrogen of azomethines. The focus is primarily on N,N-dialkyl enamines since their nucleophilicity renders them the most challenging enamines to synthesize using redox conditions. These studies establish several encouraging precedents for the broader application of this strategy. For example, the cyclization of (1R,2R)-rel-2-(2-bromo-2-propenyl)-N-(diphenylmethylene)cyclohexanamine gave (2E)-rel-2-[(3aR,7aR)-1-(diphenylmethyl)octahydro-2H-indol-2-ylidene]-1-phenylethanone.  
IT **484027-11-4**, 4-Bromo-N-(1-phenylethylidene)-4-penten-1-amine  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(free radical-mediated vinyl amination as mild, general pyrrolidinyl enamine synthesis)  
RN 484027-11-4 CAPLUS  
CN 4-Penten-1-amine, 4-bromo-N-(1-phenylethylidene)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2004 ACS on STM  
ACCESSION NUMBER: 2002:838269 CAPLUS  
DOCUMENT NUMBER: 138:89646  
TITLE: Free Radical-Mediated Vinyl Amination: Access to N,N-Dialkyl Enamines and Their  $\beta$ -Stannyl and  $\beta$ -Thio Derivatives  
AUTHOR(S): Prabhakaran, Erode N.; Nugent, Benjamin M.; Williams, Amie L.; Nailor, Kristen E.; Johnston, Jeffrey N.  
CORPORATE SOURCE: Department of Chemistry, Indiana University, Bloomington, IN, 47405-7102, USA  
SOURCE: Organic Letters (2002), 4(24), 4197-4200  
CODEN: ORLEF7; ISSN: 1523-7060  
PUBLISHER: American Chemical Society  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 138:89646  
GI



AB Vinyl pyrrolidines, e.g. I ( $R_1 = \text{MeCO}, \text{Me}_3\text{CO}, \text{PhCO}, \text{PhO}_2\text{C}, \text{PhS}$ ), were stereoselectively prepared from the corresponding bromoalkenyl or alkynyl ketimines, e.g.  $\text{HC.tplbond.C}(\text{CH}_2)_3\text{N:CMeph}$ , by intramol. free radical-mediated vinyl amination via nonconventional vinyl radical addition to azomethine nitrogen followed by trapping with acyl halides, chloroformates, etc. Similar reaction of N-aryl ketimines II ( $R_2 = \text{Me}, \text{Ph}$ ) gave disubstituted indoles III in moderate yields. This new vinyl amination protocol is mild and provides convenient synthetic access to nonstabilized N,N-dialkyl enamines and tandem bond-forming processes.

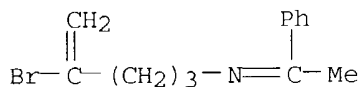
IT **484027-11-4P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of dialkyl enamines, indoles, and isoindoles via free radical-mediated intramol. vinyl amination of bromoalkenyl or alkynyl ketimines)

RN 484027-11-4 CAPLUS

CN 4-Penten-1-amine, 4-bromo-N-(1-phenylethylidene)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:910846 CAPLUS

DOCUMENT NUMBER: 136:310006

TITLE: Synthesis of new ( $\sigma^2\text{-N,N'}$ -diazadiene)( $\eta^2$ -alkene)platinum(0) compounds

AUTHOR(S): Tromp, Dorette S.; Duin, Marcel A.; Kluwer, Alexander M.; Elsevier, Cornelis J.

CORPORATE SOURCE: Coordination and Organometallic Chemistry, Universiteit van Amsterdam, Institute of Molecular Chemistry, Amsterdam, 1018 WV, Neth.

SOURCE: Inorganica Chimica Acta (2002), 327, 90-97  
CODEN: ICHAA3; ISSN: 0020-1693

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:310006

AB Novel, thermally stable, dark-red to orange  $\text{Pt}^0(\sigma^2\text{-N,N'}$ -diazadiene)( $\eta^2$ -alkene) compds. were synthesized in good yields from  $\text{Pt}(\text{COD})_2$  or  $\text{Pt}(\text{NBE})_3$ , by stepwise substitution of the resp. dienes or alkenes by an electron-poor alkene (di-Me fumarate, maleic anhydride or fumaronitrile), followed by the appropriate diazadiene ligand in dry  $\text{Et}_2\text{O}$  at  $20^\circ$  (diazadiene = various N,N'-disubstitued-1,4-diaza-1,3-dienes). The complex  $\text{Pt}(\text{DBA})_2$  is less suited as a precursor for the synthesis of  $\text{Pt}^0(\sigma^2\text{-N,N'}$ -diazadiene)( $\eta^2$ -alkene) compds., e.g.,  $[\sigma^2\text{-(i-PrN:CHCH:NPr-i)}]\text{Pt}[\eta^2\text{-(E)-MeO}_2\text{CCH:CHCO}_2\text{Me}]$ . These

10/687,208

zerovalent Pt(diazadiene)( $\eta^2$ -alkene) compds. constitute a useful category of starting materials for synthetic organoplatinum chemical and catalysis.

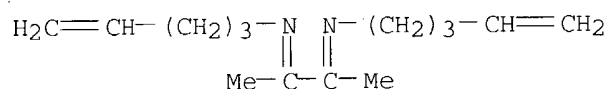
IT 411208-75-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and addition reaction with platinum alkene complex)

RN 411208-75-8 CAPLUS

CN 4-Penten-1-amine, N,N'-(1,2-dimethyl-1,2-ethanediyldene)bis- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:412580 CAPLUS

DOCUMENT NUMBER: 135:152700

TITLE: Enamide-Olefin Ring-Closing Metathesis

AUTHOR(S): Kinderman, Sape S.; van Maarseveen, Jan H.; Schoemaker, Hans E.; Hiemstra, Henk; Rutjes, Floris P. J. T.

CORPORATE SOURCE: Institute of Molecular Chemistry, University of Amsterdam, Amsterdam, 1018 WS, Neth.

SOURCE: Organic Letters (2001), 3(13), 2045-2048

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:152700

AB The first examples of ring-closing metathesis reactions of olefin-containing enamides using ruthenium-based catalysts have been demonstrated. A preliminary investigation into the scope and limitations, leading to protected five- and six-membered cyclic enamides, is presented. E.g., ring-closing metathesis reaction of  $\text{CH}_2:\text{CHNTsCH}_2\text{CH}_2\text{CH}:\text{CH}_2$  gave 84% 1-tosyl-2,3-dihydropyrrole.

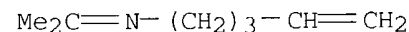
IT 352311-16-1

RL: RCT (Reactant); RACT (Reactant or reagent)

(ring-closing metathesis reactions of olefin-containing enamides)

RN 352311-16-1 CAPLUS

CN 4-Penten-1-amine, N-(1-methylethylidene)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:787797 CAPLUS

DOCUMENT NUMBER: 134:71856

TITLE: Synthesis of phosphonic analogues of 4-hydroxyproline and 5-hydroxyproline

AUTHOR(S): El Khalabi, R.; El Hallaoui, A.; Ouazzani, F.; Elachgar, A.; Atmani, A.; Roumestant, M. L.; Viallefont, Ph.; Martinez, J.

10/687,208

CORPORATE SOURCE: Laboratoire de Chimie Organique Faculte des Sciences  
Dhar El Mehraz Universite Sidi Mohamed ben Abdellah,  
Fes, Morocco

SOURCE: Preparative Biochemistry & Biotechnology (2000),  
30(4), 295-304  
CODEN: PBBIF4; ISSN: 1082-6068

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

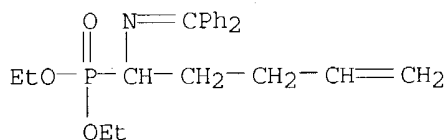
OTHER SOURCE(S): CASREACT 134:71856

AB The synthesis of phosphonic analogs of 4-hydroxyproline and  
5-hydroxy-pipecolic acid is described.

IT **316166-49-1P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of phosphonic analogs of (hydroxy)proline and  
(hydroxy)pipecolic acid)

RN 316166-49-1 CAPLUS

CN Phosphonic acid, [1-[(diphenylmethylene)amino]-4-pentenyl]-, diethyl ester  
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1999:621503 CAPLUS

DOCUMENT NUMBER: 132:12281

TITLE: Lewis acid catalysis of the intramolecular Diels-Alder  
reaction of 1-azadienes

AUTHOR(S): Motorina, Irina A.; Grierson, David S.

CORPORATE SOURCE: Institute de Chimie des Substances Naturelles,  
C.N.R.S., Gif-sur-Yvette, 91198, Fr.

SOURCE: Tetrahedron Letters (1999), 40(40), 7215-7218  
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:12281

AB Copper(II) trifluoromethanesulfonate, its chiral bisoxazoline complex, and  
bismuth(III) chloride efficiently catalyze the intramol. cycloaddn.  
reactions of N-vinyloxypropyl-2-cyano-1-azadienes. Both the scope of this  
process and the reaction conditions were studied.

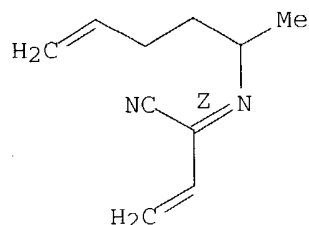
IT **251344-10-2**  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(Lewis acid-catalyzed intramol. Diels-Alder reaction of azadienes)

RN 251344-10-2 CAPLUS

CN 3-Butenenitrile, 2-[(1-methyl-4-pentenyl)imino]-, (2Z)- (9CI) (CA INDEX  
NAME)

Double bond geometry as shown.

10/687,208



REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1997:223973 CAPLUS

DOCUMENT NUMBER: 126:212017

TITLE: Intramolecular Diels-Alder Reaction of 2-Cyano-1-aza-1,3-butadienes

AUTHOR(S): Sisti, Nicholas J.; Zeller, Emmanuel; Grierson, David S.; Fowler, Frank W.

CORPORATE SOURCE: Department of Chemistry, State University at New York, Stony Brook, NY, 11794, USA

SOURCE: Journal of Organic Chemistry (1997), 62(7), 2093-2097  
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 126:212017

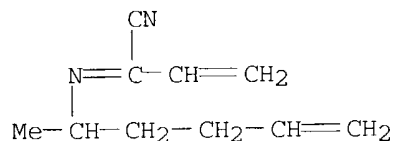
AB It has been demonstrated that a 2-cyano substituent is sufficient to activate 1-aza-1,3-butadienes with respect to the intramol. Diels-Alder reaction. This reaction is successful for the preparation of the indolizine and quinolizine ring systems. The stereochem. of the isomeric products was assigned by a careful anal. of their NMR spectral data.

IT 187977-63-5P 188015-11-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intramol. Diels-Alder reaction of 2-cyano-1-aza-1,3-butadienes)

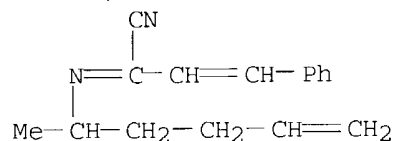
RN 187977-63-5 CAPLUS

CN 3-Butenenitrile, 2-[(1-methyl-4-pentenyl)imino]- (9CI) (CA INDEX NAME)

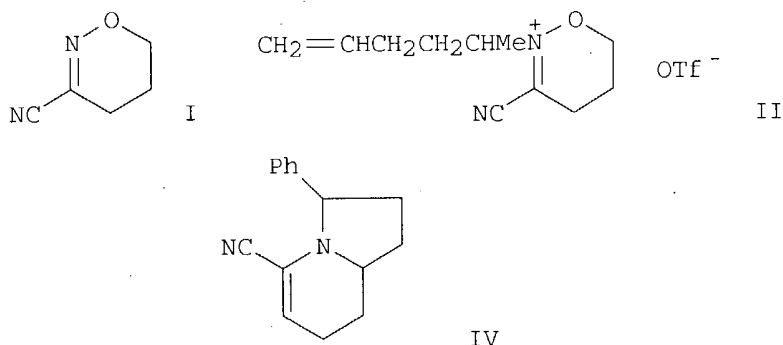


RN 188015-11-4 CAPLUS

CN 3-Butenenitrile, 2-[(1-methyl-4-pentenyl)imino]-4-phenyl- (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN  
 ACCESSION NUMBER: 1997:218550 CAPLUS  
 DOCUMENT NUMBER: 126:211653  
 TITLE: Intramolecular Diels-Alder Reaction of  
 N-Alkyl-2-cyano-1-azadienes: A Study of the  
 Eschenmoser Cycloreversion of Dihydrooxazines as a  
 Route to N-Alkyl-2-cyano-1-azadienes  
 AUTHOR(S): Motorina, Irina A.; Fowler, Frank W.; Grierson, David  
 S.  
 CORPORATE SOURCE: Institut de Chimie des Substances Naturelles, Gif-sur  
 Yvette, 91198, Fr.  
 SOURCE: Journal of Organic Chemistry (1997), 62(7), 2098-2105  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



AB In connection with the development of the intramol. Diels-Alder reaction (IMDA) of 1-azadienes, the 5,6-dihydro-4H-1,2-oxazine I has been evaluated as a synthon equivalent of the 2-cyano-1-azadiene system. The dihydrooxazonium salt II, generated in situ from the cyclic hydroxamic acid derivative, is converted directly to azadiene  $\text{CH}_2\text{:CHCH}_2\text{CH}_2\text{CHMeN:C(CN)CH:CH}_2$  (III) via tautomerization to the corresponding enamine and a particularly facile Eschenmoser-type cycloreversion process. Conditions were subsequently found for the preparation of synthon I. N-Alkylation of this intermediate with alkyl bromides in the presence of  $\text{Ag}^+$  ion also resulted in direct formation of 2-cyano-1-azadiene products. Microwave irradiation of a benzene solution of

III proved to be a convenient means to effect its IMDA conversion to an indolizidine. To avoid decomposition of one azadiene, its intramol. cycloaddn. to indolizidine IV (60%) was achieved by flash vacuum thermolysis.

IT 187977-63-5P 187977-65-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

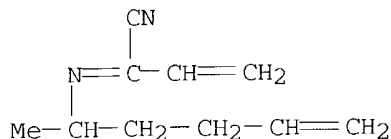
(intramol. Diels-Alder reaction of N-alkyl-2-cyano-1-azadienes and Eschenmoser cycloreversion of dihydrooxazines as route to N-alkyl-2-cyano-1-azadienes)

RN 187977-63-5 CAPLUS

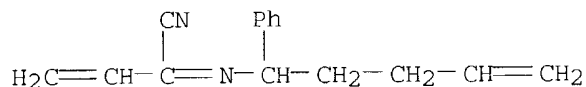
CN 3-Butenenitrile, 2-[(1-methyl-4-pentenyl)imino]- (9CI) (CA INDEX NAME)



10/687,208



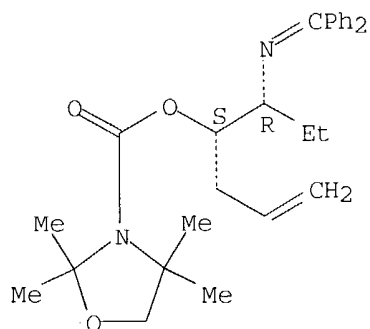
RN 187977-65-7 CAPLUS  
CN 3-Butenenitrile, 2-[(1-phenyl-4-pentenyl)imino]- (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1997:118815 CAPLUS  
DOCUMENT NUMBER: 126:211860  
TITLE: Stereoselective synthesis of enantiopure  $\beta$ -amino alcohols via nucleophilic  $\beta$ -amino- $\alpha$ -hydroxyalkylation by 1-lithiated 2-[N-(diphenylmethylenamino)]alkyl carbamates  
AUTHOR(S): Boie, Christiane; Hoppe, Dieter  
CORPORATE SOURCE: Organisch-Chemisches Institut, Universitaet Muenster, Muenster, D-48149, Germany  
SOURCE: Synthesis (1997), (2), 176-182  
CODEN: SYNTBF; ISSN: 0039-7881  
PUBLISHER: Thieme  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 126:211860  
AB 2-[N-(diphenylmethylenamino)]alkyl carbamates are deprotonated by sec-BuLi in the presence of TMEDA or (-)-sparteine and the diastereomeric pairs of the  $\alpha$ -oxycarbanions formed are substituted by several electrophiles. Deprotection proceeds smoothly to yield chain-elongated  $\beta$ -amino alcs. Side-reactions due to nucleophilic attack of the alkylolithium at an aryl ring of the benzophenone imine were observed under certain reaction conditions.  
IT **188125-91-9P 188125-94-2P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(synthesis of amino alcs. via asym. aminohydroxyalkylation by lithiated (methylenamino)alkyl carbamates)  
RN 188125-91-9 CAPLUS  
CN 3-Oxazolidinecarboxylic acid, 2,2,4,4-tetramethyl-, 1-[1-[(diphenylmethylenamino)aminopropyl]-3-butenyl ester, [S-(R\*,S\*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

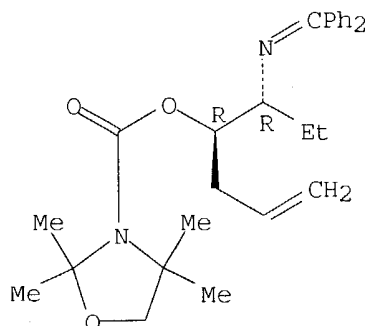
10/687,208



RN 188125-94-2 CAPLUS

CN 3-Oxazolidinecarboxylic acid, 2,2,4,4-tetramethyl-, 1-[1-  
[(diphenylmethylene)amino]propyl]-3-butenyl ester, [R-(R\*,R\*)]- (9CI) (CA  
INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1996:215505 CAPLUS

DOCUMENT NUMBER: 125:11391

TITLE: Preparation of optically active  $\beta$ -carboxyaspartic acid derivatives via Pd(0)-catalyzed asymmetric substitution of Schiff base acetates

AUTHOR(S): O'Donnell, Martin J.; Zhou, Changyou; Chen, Ning  
CORPORATE SOURCE: Dep. Chem., Indiana Univ.-Purdue Univ. Indianapolis, Indianapolis, IN, 46202, USA

SOURCE: Tetrahedron: Asymmetry (1996), 7(3), 621-4  
CODEN: TASYE3; ISSN: 0957-4166

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 125:11391

AB (S)-Ph<sub>2</sub>C:NCH(CO<sub>2</sub>CMe<sub>3</sub>)CR(CO<sub>2</sub>Me)<sub>2</sub> (I, R = H) (77% ee) was obtained in 48% total yield from the coupling of Ph<sub>2</sub>C:NCH(OAc)1CO<sub>2</sub>CMe<sub>3</sub> with sodium di-Me malonate in the presence of 5% Pd(OAc)<sub>2</sub>-(2S,4S)-BPPM followed by a single recrystn. Phase-transfer catalyzed alkylation of I (R = H) affords I [R = Me, allyl, CH<sub>2</sub>Ph] in excellent yield without racemization at the  $\alpha$ -carbon.

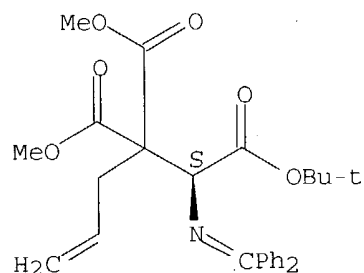
IT 176965-35-8P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of optically active  $\beta$ -carboxyaspartic acid derivs. via  
Pd(0)-catalyzed asym. substitution of Schiff base acetates)

10/687,208

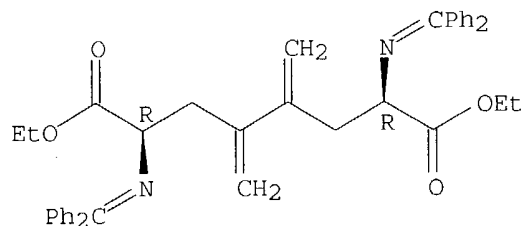
RN 176965-35-8 CAPLUS  
CN 4-Pentene-1,2,2-tricarboxylic acid, 1-[(diphenylmethylene)amino]-,  
1-(1,1-dimethylethyl) 2,2-dimethyl ester, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1995:870809 CAPLUS  
DOCUMENT NUMBER: 124:56615  
TITLE: Synthesis of bis( $\alpha$ -amino acids) by  
palladium-catalyzed allylic double substitution  
AUTHOR(S): Mazon, Angel; Najera, Carmen; Ezquerro, Jesus;  
Pedregal, Concepcion  
CORPORATE SOURCE: Facultad Ciencias, Universidad Alicante, Alicante,  
03080, Spain  
SOURCE: Tetrahedron Letters (1995), 36(42), 7697-700  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 124:56615  
AB The reaction of the lithium enolate derived from glycine Et ester  
benzophenone imine with allylic dihalides in the presence of a catalytic  
amount of Pd(PPh<sub>3</sub>)<sub>4</sub> (5 mol %) affords the corresponding bis(imino esters).  
Subsequent hydrolysis of the bis(imino esters) gives the corresponding  
bis( $\alpha$ -amino acids). This methodol. has been used to synthesize  
 $\alpha,\alpha'$ -diaminosuberic acid.  
IT **172169-40-3P 172169-41-4P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(synthesis of bis(amino acids) by palladium-catalyzed alkylation of  
glycine ester benzophenonimine with allylic dihalides)  
RN 172169-40-3 CAPLUS  
CN Octanedioic acid, 2,7-bis[(diphenylmethylene)amino]-4,5-bis(methylene)-,  
diethyl ester, (R\*,R\*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

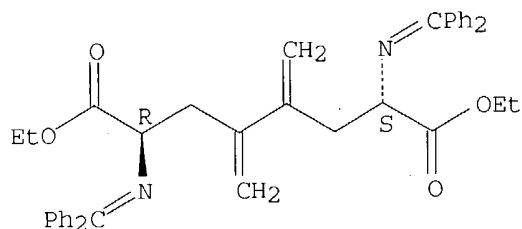


RN 172169-41-4 CAPLUS

10/687,208

CN Octanedioic acid, 2,7-bis[(diphenylmethylene)amino]-4,5-bis(methylene)-, diethyl ester, (R\*,S\*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:567182 CAPLUS

DOCUMENT NUMBER: 123:199338

TITLE: Accelerated transmetalation in Stille couplings effected by chelation to the palladium

AUTHOR(S): Crisp, Geoffrey T.; Gebauer, Markus G.

CORPORATE SOURCE: Dep. Chem., Univ. Adelaide, Adelaide, 5005, Australia

SOURCE: Tetrahedron Letters (1995), 36(19), 3389-92

CODEN: TELEAY; ISSN: 0040-4039

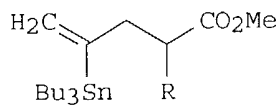
PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

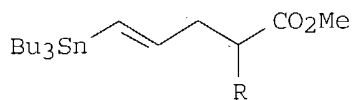
LANGUAGE: English

OTHER SOURCE(S): CASREACT 123:199338

GI



I



II

AB The relative reactivities of vinylstannanes I and II (R = N:CPh<sub>2</sub>, NHAc) in a Stille coupling with vinyl bromide were studied under a variety of conditions. Vinyl bromide coupled with the sterically hindered vinylstannane I (R = N:CPh<sub>2</sub>) preferentially compared to the less hindered stannane II (R = N:CPh<sub>2</sub>) when PdCl<sub>2</sub>(MeCN)<sub>2</sub> was employed as a catalyst. Coordination of the imine protecting group nitrogen to the Pd is proposed to account for this rate acceleration.

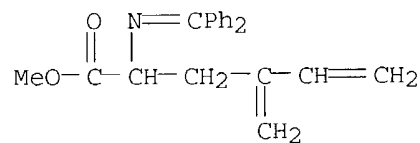
IT 126385-55-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(accelerated transmetalation in Stille couplings effected by chelation to the palladium)

RN 126385-55-5 CAPLUS

CN 5-Hexenoic acid, 2-[(diphenylmethylene)amino]-4-methylene-, methyl ester (9CI) (CA INDEX NAME)



10/687,208

L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:465853 CAPLUS

DOCUMENT NUMBER: 123:9496

TITLE: Preparation of Monosilyl Acetals from Esters via  
iBu<sub>2</sub>AlH Reduction and Trapping with  
N-(Trimethylsilyl)imidazole. Addition of  
Allyltrimethylsilane To Yield Homoallylic Alcohols or  
Ethers

AUTHOR(S): Sames, Dalibor; Liu, Yunqi; DeYoung, Lynn; Polt, Robin

CORPORATE SOURCE: Department of Chemistry, University of Arizona,  
Tucson, AZ, 85721, USA

SOURCE: Journal of Organic Chemistry (1995), 60(7), 2153-9  
CODEN: JOCEAH; ISSN: 0022-3263

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Alkyl esters were reduced with iBu<sub>2</sub>AlH or a 1:1 mixture of iBu<sub>2</sub>AlH and  
iBu<sub>3</sub>Al (iBu<sub>2</sub>AlH·iBu<sub>3</sub>Al or iBu<sub>5</sub>Al<sub>2</sub>H), followed by trapping of the  
resulting tetrahedral intermediate with TMS-imidazole to produce monosilyl  
acetals. Reaction of the mixed acetals with allyltrimethylsilane in the  
presence of Lewis acids (Hosomi-Sakurai reaction) generated homoallylic  
alcs. or ethers selectively, depending on the substitution of the  
monosilyl acetal. TMS methoxy acetals (MeO-CH-OTMS) and TMS ethoxy  
acetals bearing addnl. complexing groups such as MeO- or Ph<sub>2</sub>C=N- provided  
alcs. with 1.5:1-9:1 threoselectivity, while simple TMS ethoxy acetals  
provided only Et ethers as products. The monosilyl acetal configuration  
was easily epimerized or racemized, and the configuration of the  
Hosomi-Sakurai product was apparently independent of the initial monosilyl  
acetal reactant configuration.

IT 163625-22-7P 163625-23-8P 163625-24-9P

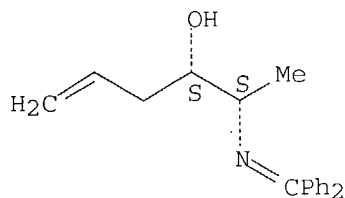
163625-25-0P

RL: .SPN (Synthetic preparation); PREP (Preparation)  
(Hosomi-Sakurai reaction of monosilyl acetals with  
allyltrimethylsilane)

RN 163625-22-7 CAPLUS

CN 5-Hexen-3-ol, 2-[(diphenylmethylene)amino]-, [S-(R\*,R\*)]- (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.

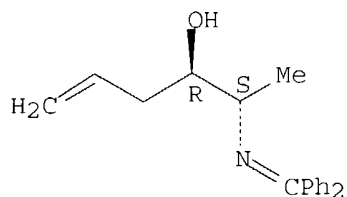


RN 163625-23-8 CAPLUS

CN 5-Hexen-3-ol, 2-[(diphenylmethylene)amino]-, [R-(R\*,S\*)]- (9CI) (CA INDEX  
NAME)

Absolute stereochemistry.

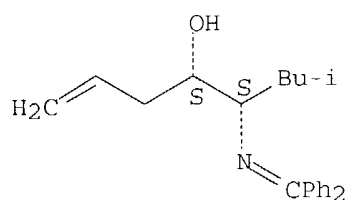
10/687,208



RN 163625-24-9 CAPLUS

CN 1-Octen-4-ol, 5-[(diphenylmethylene)amino]-7-methyl-, [S-(R\*,R\*)] - (9CI)  
(CA INDEX NAME)

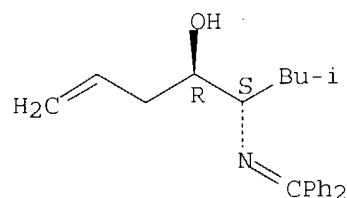
Absolute stereochemistry.



RN 163625-25-0 CAPLUS

CN 1-Octen-4-ol, 5-[(diphenylmethylene)amino]-7-methyl-, [R-(R\*,S\*)] - (9CI)  
(CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:372451 CAPLUS

DOCUMENT NUMBER: 122:142010

TITLE: Sila perfumes and isosteric perfumes. 13. Isosteric compounds according to the hydride principle of Grimm in the linalool-type of odorous compounds.

AUTHOR(S): Wannagat, U.; Damrath, V.; Harder, U.

CORPORATE SOURCE: Inst. Anorganische, Technischen Univ. Braunschweig, Braunschweig, D-38106, Germany

SOURCE: Monatshefte fuer Chemie (1994), 125(11), 1159-69  
CODEN: MOCMB7; ISSN: 0026-9247

PUBLISHER: Springer

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Substitution of the Me<sub>2</sub>CH:CH group by Me<sub>2</sub>N in linalool as well as by the Me<sub>2</sub>CHCH<sub>2</sub> group in linalool and in sila-linalool does not lead to noticeable changes of their scent qualities. On the contrary, substitution of the OH group at the tertiary C atom by NH<sub>2</sub> or CH<sub>3</sub> - hydride isosteric to OH according to Grimm - affords fishy or etheric instead of the original flowery smells thus indicating a transition to different basic classes of odor. Similar results were obtained with the

10/687,208

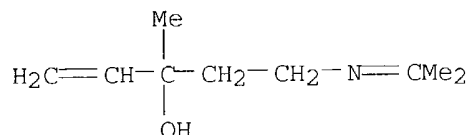
linalool-like perfumes of benzyldimethylcarbinol and phenylethyldimethylcarbinol.

IT 161300-04-5P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(isosteric compds. based on linalool-type of odorous compds.)

RN 161300-04-5 CAPLUS

CN 1-Penten-3-ol, 3-methyl-5-[(1-methylethylidene)amino]- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1992:611983 CAPLUS

DOCUMENT NUMBER: 117:211983

TITLE: Effect of various parameters on the stereoselectivity of 1,3-diene synthesis by carbopalladation of allenes

AUTHOR(S): Friess, B.; Cazes, B.; Gore, J.

CORPORATE SOURCE: ESCIL, Univ. Claude Bernard, Villeurbanne, 69622, Fr.

SOURCE: Bulletin de la Societe Chimique de France (1992), 129(3), 273-9

CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal

LANGUAGE: French

OTHER SOURCE(S): CASREACT 117:211983

AB The effects of the temperature and of the nature of solvent, phosphine ligand and carbon nucleophile on the stereoselectivity of the palladium-catalyzed process involving 1,2-decadiene and vinyl bromide and leading to 1,3-dienes, e.g., (E)- and (Z)-CH<sub>2</sub>:CMeC(:CHR)CH<sub>2</sub>CH(CO<sub>2</sub>Et)<sub>2</sub> (R = heptyl), have been studied. This reaction, which produces a 1:1 mixture of dienes in the conditions previously described [THF, Pd(dppe) (dppe = Ph<sub>2</sub>PCH<sub>2</sub>CH<sub>2</sub>PPh<sub>2</sub>), malonate anion] can be oriented either towards the E-isomer (75%) by using acetonitrile or a hindered phosphine or towards the Z-isomer (83%) when an anion of low nucleophilicity is involved. These results can be related to the relative stability and reactivity of both syn- and anti- $\pi$ -allyl complexes which are intermediates in the process.

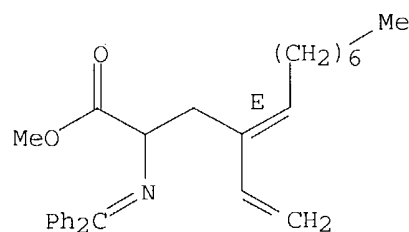
IT 144150-91-4P 144150-92-5P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 144150-91-4 CAPLUS

CN 4-Dodecenoic acid, 2-[(diphenylmethylene)amino]-4-ethenyl-, methyl ester, (E)- (9CI) (CA INDEX NAME)

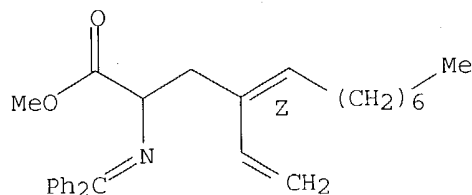
Double bond geometry as shown.



10/687,208

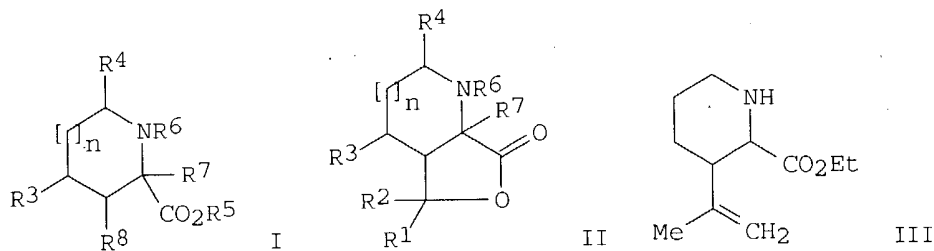
RN 144150-92-5 CAPLUS  
CN 4-Dodecenoic acid, 2-[(diphenylmethylene)amino]-4-ethenyl-, methyl ester,  
(Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1991:81593 CAPLUS  
DOCUMENT NUMBER: 114:81593  
TITLE: Preparation of piperidinecarboxylates, their lactones,  
and analogs  
INVENTOR(S): Tietze, Lutz F.; Bratz, Matthias  
PATENT ASSIGNEE(S): Hoechst A.-G., Germany  
SOURCE: Ger. Offen., 20 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3900332	A1	19900712	DE 1989-3900332	19890107
PRIORITY APPLN. INFO.:			DE 1989-3900332	19890107
OTHER SOURCE(S):			CASREACT 114:81593; MARPAT 114:81593	
GI				



AB The title compds. [I and II; R1, R2, R4, R6 = H, alkyl; R3 = H, alkyl, Ph, alkoxyphenyl; R5 = alkyl, (un)substituted Ph, cyclohexyl; R7 = H, CO2R5; R8 = alkenyl; R3R8 = (CH2)4, atoms to complete a benzanellated (N-containing) ring, etc.; n = 0-2; 1 bond in N-containing ring may be unsatd.] were prepared as potentially biol. active compds. (no data) by condensation of R1R2C:CHCHR3(CH2)nCHR4NH2 with R7COCO2R5 and cyclization of product R1R2C:CHCHR3(CH2)nCHR4N:CR7CO2R5 with a Lewis or Broensted acid. Thus, Me2C:CH(CH2)3NH2 was stirred with OHCCO2Et in CH2Cl containing MgSO4 and the product stirred overnight with CF3SO2OSiMe3 in MeOCMe3 to give cis- and trans-isopropenylpiperidinecarboxylate III.

IT 119071-72-6 119071-73-7 131847-56-8

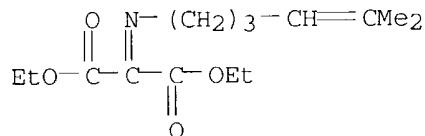


10/687,208

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, in preparation and cyclization of  
(carboxymethylenimino)alkene)

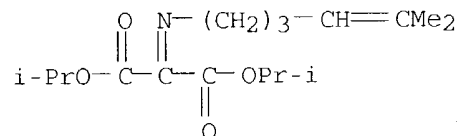
RN 119071-72-6 CAPLUS

CN Propanedioic acid, [(5-methyl-4-hexenyl)imino]-, diethyl ester (9CI) (CA INDEX NAME)



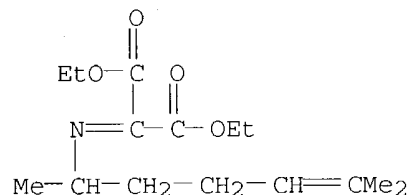
RN 119071-73-7 CAPLUS

CN Propanedioic acid, [(5-methyl-4-hexenyl)imino]-, bis(1-methylethyl) ester (9CI) (CA INDEX NAME)



RN 131847-56-8 CAPLUS

CN Propanedioic acid, [(1,5-dimethyl-4-hexenyl)imino]-, diethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:179753 CAPLUS

DOCUMENT NUMBER: 112:179753

TITLE: Palladium-catalyzed synthesis of dienic  $\alpha$ -amino acids from allenes

AUTHOR(S): Kopola, Nina; Friess, Beatrice; Cazes, Bernard; Gore, Jacques

CORPORATE SOURCE: Lab. Chim. Org. I, Univ. Claude Bernard, Villeurbanne, 69622, Fr.

SOURCE: Tetrahedron Letters (1989), 30(30), 3963-6  
CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:179753

AB 1,3-Dienic or styryl  $\alpha$ -amino acid precursors

RCH:CR<sub>1</sub>CH<sub>2</sub>CH(CO<sub>2</sub>Me)N:CPh<sub>2</sub>[I; R = H, Me(CH<sub>2</sub>)<sub>6</sub>, R<sub>1</sub> = CMe:CH<sub>2</sub>; R = H, R<sub>1</sub> = CH:CH<sub>2</sub>, Ph] and H<sub>2</sub>C:CR<sub>1</sub>CH<sub>2</sub>C(CO<sub>2</sub>Et)<sub>2</sub>NHAc (R<sub>1</sub> = CH:CH<sub>2</sub>, Ph) are easily obtained through the catalytic carbopalladation of allenes followed by the trapping of the intermediate  $\pi$ -allyl complex with either LiCH(CO<sub>2</sub>Me)N:CPh<sub>2</sub> or NaC(CO<sub>2</sub>Et)<sub>2</sub>NHAc. Hydrolysis and saponification of I (R =

H)

10/687,208

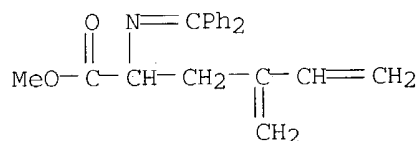
gave amino acids  $\text{H}_2\text{C}:\text{CR}^1\text{CH}_2\text{CH}(\text{NH}_2)\text{CO}_2\text{H}$ .

IT **126385-55-5P 126385-56-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and acidic hydrolysis of)

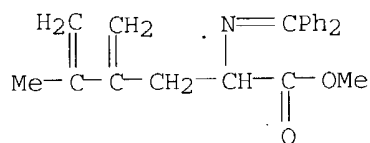
RN 126385-55-5 CAPLUS

CN 5-Hexenoic acid, 2-[(diphenylmethylene)amino]-4-methylene-, methyl ester (9CI) (CA INDEX NAME)



RN 126385-56-6 CAPLUS

CN 5-Hexenoic acid, 2-[(diphenylmethylene)amino]-5-methyl-4-methylene-, methyl ester (9CI) (CA INDEX NAME)



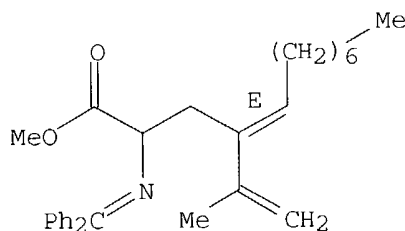
IT **126385-60-2P 126385-61-3P**

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 126385-60-2 CAPLUS

CN 4-Dodecenoic acid, 2-[(diphenylmethylene)amino]-4-(1-methylethenyl)-, methyl ester, (E)- (9CI) (CA INDEX NAME)

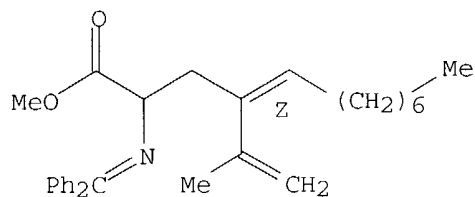
Double bond geometry as shown.



RN 126385-61-3 CAPLUS

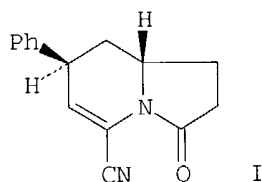
CN 4-Dodecenoic acid, 2-[(diphenylmethylene)amino]-4-(1-methylethenyl)-, methyl ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



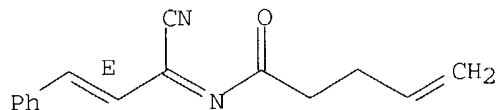
10/687,208

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1990:35640 CAPLUS  
DOCUMENT NUMBER: 112:35640  
TITLE: The Diels-Alder reaction of 1-azadienes. The effect  
of an  $\alpha$ -cyano substituent  
AUTHOR(S): Teng, Min; Fowler, Frank W.  
CORPORATE SOURCE: Dep. Chem., State Univ. New York, Stony Brook, NY,  
11794, USA  
SOURCE: Tetrahedron Letters (1989), 30(19), 2481-4  
CODEN: TELEAY; ISSN: 0040-4039  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 112:35640  
GI



AB N-Acyl- $\alpha$ -cyano-1-azadienes are reactive and anti selective dienes in  
the intramol. hetero Diels-Alder reaction. Thus, heating  
PhCH:CHC(CN):NCOCH<sub>2</sub>CH<sub>2</sub>CH:CH<sub>2</sub> in C<sub>6</sub>H<sub>6</sub> gave adduct I.  
IT **124643-72-7P**  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation and intramol. Diels-Alder reaction of, stereochem. of)  
RN 124643-72-7 CAPLUS  
CN 4-Pentenamide, N-(1-cyano-3-phenyl-2-propenylidene)-, (? ,E)- (9CI) (CA  
INDEX NAME)

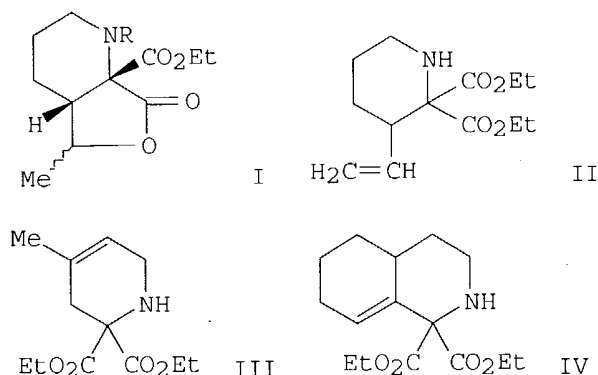
Double bond geometry as described by E or Z.



L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN  
ACCESSION NUMBER: 1990:7330 CAPLUS  
DOCUMENT NUMBER: 112:7330  
TITLE: Stereoselective electrophilic cyclization of doubly  
activated imines with allylsilanes and simple alkenes  
AUTHOR(S): Tietze, Lutz F.; Bratz, Matthias; Pretor, Martina  
CORPORATE SOURCE: Inst. Org. Chem., Univ. Goettingen, Goettingen,  
D-3400, Fed. Rep. Ger.  
SOURCE: Chemische Berichte (1989), 122(10), 1955-61  
CODEN: CHBEAM; ISSN: 0009-2940  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 112:7330

10/687,208

GI



AB The trimethylsilyl triflate cyclization. of Z- and E-hexenyliminomalonates MeCH:CH(CH<sub>2</sub>)<sub>3</sub>N:C(CO<sub>2</sub>Et)<sub>2</sub> with trimethylsilyl triflate stereoselectively affords the cis-annulated piperidine lactones I (R = H, Et) with complete retention of the double bond geometry. In contrast, the allylsilane H<sub>2</sub>C:SiMeC:CH(CH<sub>2</sub>)<sub>3</sub>N:C(CO<sub>2</sub>Et)<sub>2</sub> leads exclusively to the vinyl piperidine II. Cyclization of the imines R<sub>1</sub>CH<sub>2</sub>CH<sub>2</sub>N:C(CO<sub>2</sub>Et)<sub>2</sub> (R<sub>1</sub> = H<sub>2</sub>C:CMe, 1-cyclohexen-1-yl) gives in high yield preferentially the tetrahydropyridine II and the octahydroisoquinoline III, resp.

IT 120788-33-2P 120788-34-3P 120788-35-4P

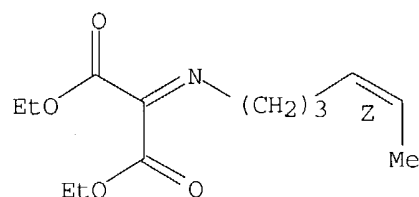
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and intramol. stereoselective electrophilic cyclization. of)

RN 120788-33-2 CAPLUS

CN Propanedioic acid, (4-hexenylimino)-, diethyl ester, (Z)- (9CI) (CA INDEX NAME)

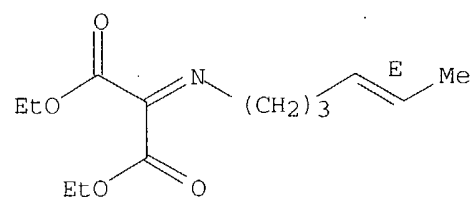
Double bond geometry as shown.



RN 120788-34-3 CAPLUS

CN Propanedioic acid, (4-hexenylimino)-, diethyl ester, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

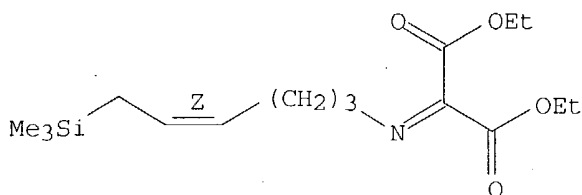


10/687,208

RN 120788-35-4 CAPLUS

CN Propanedioic acid, [[6-(trimethylsilyl)-4-hexenyl]imino]-, diethyl ester,  
(Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:231464 CAPLUS

DOCUMENT NUMBER: 110:231464

TITLE: Intramolecular electrophilic cyclization of double activated imines induced by Lewis acids and trialkylsilyl triflates. An efficient route to substituted piperidines and annulated piperidine lactones

AUTHOR(S): Tietze, Lutz F.; Bratz, Matthias

CORPORATE SOURCE: Inst. Org. Chem., Univ. Goettingen, Goettingen, D-3400, Fed. Rep. Ger.

SOURCE: Chemische Berichte (1989), 122(5), 997-1002

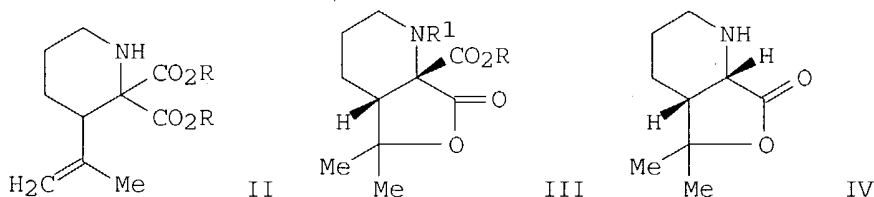
CODEN: CHBEAM; ISSN: 0009-2940

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:231464

GI



AB Intramol. electrophilic cyclization of  $\text{Me}_2\text{C}:\text{CH}(\text{CH}_2)_3\text{N}:\text{C}(\text{CO}_2\text{R})_2$  (I, R = Me, Et, Me<sub>2</sub>CH) using Lewis and Brønsted acids as well as trialkylsilyl trifluoromethanesulfonates gives the piperidines II (R = Me, Et, Me<sub>2</sub>CH) and the annulated piperidine lactones III (R = Me, Et, Me<sub>2</sub>CH; R<sub>1</sub> = H) and III (R = R<sub>1</sub> = Me). I (R = Et) yields mostly II (R = Et) with the trialkylsilyl triflates and III (R = Et, R<sub>1</sub> = H) with Lewis acids such as FeCl<sub>3</sub> on Al<sub>2</sub>O<sub>3</sub> or GaCl<sub>3</sub>. The reaction of I (R = Me, Me<sub>2</sub>CH) always results, using different methods, in the formation of the lactones III (R = Me, R<sub>1</sub> = H; R = R<sub>1</sub> = Me; R = H, R<sub>1</sub> = Me<sub>2</sub>CH), resp. Treatment of III (R = Et, R<sub>1</sub> = H) with aqueous base affords IV, a derivative of a cyclic nonproteinogenic  $\alpha$ -amino acid.

IT 119071-71-5P 119071-72-6P 119071-73-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

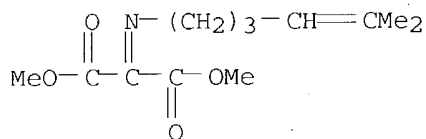
(preparation and intramol. electrophilic cyclization of, catalysts for)

RN 119071-71-5 CAPLUS

CN Propanedioic acid, [(5-methyl-4-hexenyl)imino]-, dimethyl ester (9CI) (CA

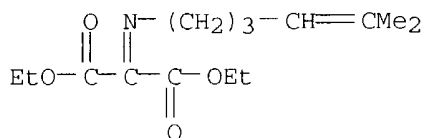
10/687,208

INDEX NAME)



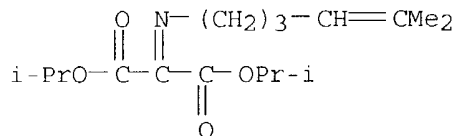
RN 119071-72-6 CAPLUS

CN Propanedioic acid, [(5-methyl-4-hexenyl)imino]-, diethyl ester (9CI) (CA INDEX NAME)



RN 119071-73-7 CAPLUS

CN Propanedioic acid, [(5-methyl-4-hexenyl)imino]-, bis(1-methylethyl) ester (9CI) (CA INDEX NAME)



L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1971:63453 CAPLUS

DOCUMENT NUMBER: 74:63453

TITLE: Compounds related to juvenile hormone. VII. Activity of selected nitrogen-containing terpenoid compounds on the yellow mealworm

AUTHOR(S): Schwarz, Meyer; Wakabayashi, Nobel; Sonnet, Philip E.; Redfern, R. E.

CORPORATE SOURCE: Entomol. Res. Div., Agric. Res. Serv., Beltsville, MD, USA

SOURCE: Journal of Economic Entomology (1970), 63(6), 1858-60  
CODEN: JEENAI; ISSN: 0022-0493

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Numerous derivs. of isoprenoid amines were prepared and compared with the juvenile hormone activity of several carbamates, such as I and II, in *Tenebrio molitor* to determine if the activity of the latter compds. was intrinsically related to carbamate functionality. Of the derivs. of terpenoid amines, the carbamates were the most active. No effect on activity was found when the middle double bond in I was saturated. However, the Et carbamate derived from 3,7-dimethyl-2-octenylamine and the Et carbamate of 3,7-dimethyloctylamine showed juvenile hormone activity only at very high concns., indicating that a penultimate double bond or epoxide was necessary for activity at very low concns. The high activity of phenyl carbamates suggested the possibility of their use for insect control.

10/687,208

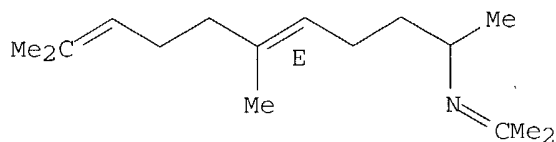
IT 31025-83-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)  
(juvenile hormone activity of, in Tenebrio molitor)

RN 31025-83-9 CAPLUS

CN 4,8-Decadienylamine, N-isopropylidene-1,5,9-trimethyl-, (E)- (8CI) (CA INDEX NAME)

Double bond geometry as shown.



=> d his

(FILE 'HOME' ENTERED AT 09:11:40 ON 23 APR 2004)

FILE 'STNGUIDE' ENTERED AT 09:11:50 ON 23 APR 2004

FILE 'HOME' ENTERED AT 09:11:54 ON 23 APR 2004

FILE 'REGISTRY' ENTERED AT 09:12:02 ON 23 APR 2004

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 33 S L1 FULL

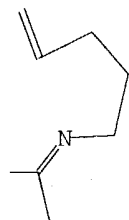
FILE 'CAPLUS' ENTERED AT 09:13:15 ON 23 APR 2004

L4 21 S L3

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=>

Day : Friday  
 Date: 4/23/2004  
 Time: 09:16:28

# **PALM INTRANET**

## Inventor Name Search Result

Your Search was:

Last Name = JOHNSTON

First Name = JEFFREY

Application#	Patent#	Status	Date Filed	Title	Inventor Name 20
<u>60293801</u>	Not Issued	159	05/25/2001	METHOD AND SYSTEM FOR IDENTIFYING TEAM LOYALTY	JOHNSTON, JEFFREY LEE
<u>60285631</u>	Not Issued	159	04/20/2001	CHIRAL ORGANIC MOLECULES AND METAL COORDINATION COMPLEXES THEREOF	JOHNSTON, JEFFREY N.
<u>60282011</u>	Not Issued	159	04/06/2001	DESIGN OF AN ON-WAFER TEST STRUCTURE TO DETECT PROCESS-INDUCED HIGH FREQUENCY PARAMETRIC VARIATIONS THROUGH DC MEASUREMENTS	JOHNSTON, JEFFREY M.
<u>29087492</u>	<u>D411119</u>	150	05/04/1998	MASONRY GUIDE	JOHNSTON, JEFFREY
<u>10689156</u>	Not Issued	020	10/20/2003	CHIRAL ORGANIC COMPOUNDS AND METAL COORDINATION COMPLEXES THEREOF	JOHNSTON, JEFFREY N.
<u>10687208</u>	Not Issued	030	10/16/2003	AMINATION PROCESS	JOHNSTON, JEFFREY N.
<u>10117378</u>	Not Issued	041	04/04/2002	SEMICONDUCTOR TEST SYSTEM AND ASSOCIATED METHODS FOR WAFER LEVEL ACCEPTANCE TESTING	JOHNSTON, JEFFREY M.
<u>09801269</u>	<u>6670479</u>	150	03/07/2001	AMINATION PROCESS	JOHNSTON, JEFFREY N.
<u>09704349</u>	Not Issued	089	11/01/2000	METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCTS FOR FACILITATING USER	JOHNSTON, JEFFREY M.



				CHOICES AMONG COMPLEX ALTERNATIVES USING CONJOINT ANALYSIS	
<u>09394802</u>	<u>6329260</u>	150	09/10/1999	ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	JOHNSTON , JEFFREY
<u>09323979</u>	Not Issued	161	06/01/1999	HYBRID SURFACE MODIFICATION PROCESSES AND ARTICLES WITH TEXTURED OR PATTERNED SURFACES	JOHNSTON , JEFFREY M.
<u>09314702</u>	<u>6121537</u>	150	05/19/1999	GUITAR PICKUP SYSTEM FOR SELECTING FROM MULTIPLE GIBSON AND FENDER TONALITIES	JOHNSTON , JEFFREY R.
<u>08999806</u>	<u>6493615</u>	150	08/09/1999	VEHICLE DIAGNOSTIC SYSTEM	JOHNSTON, JEFFREY
<u>08956413</u>	<u>6044217</u>	150	10/23/1997	HIERARCHICAL METADATA STORE FOR AN INTEGRATED DEVELOPMENT ENVIRONMENT	JOHNSTON , JEFFREY G.
<u>08950117</u>	Not Issued	161	10/14/1997	AN OBJECT ORIENTED FRAMEWORK MECHANISM PROVIDING COMMON OBJECT RELATIONSHIP AND CONTEXT MANAGEMENT FOR MULTIPLE TOOLS	JOHNSTON , JEFFREY G.
<u>08950116</u>	<u>6026401</u>	150	10/14/1997	LOCKING TOOL DATA OBJECTS IN A FRAMEWORK ENVIRONMENT	JOHNSTON , JEFFREY G.
<u>08739898</u>	<u>5994755</u>	150	10/30/1996	ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	JOHNSTON , JEFFREY
<u>08391490</u>	<u>5481129</u>	150	02/21/1995	ANALOG-TO-DIGITAL CONVERTER	JOHNSTON , JEFFREY M.
<u>07785400</u>	Not Issued	166	10/30/1991	ANALOG-TO-DIGITAL CONVERTER AND METHOD OF FABRICATION	JOHNSTON , JEFFREY M.
<u>06506565</u>	<u>4531215</u>	150	06/22/1983	VALIDITY CHECKING ARRANGEMENT FOR EXTENDED MEMORY MAPPING OF EXTERNAL DEVICES	JOHNSTON , JEFFREY J.

---

## Inventor Search Completed: No Records to Display.

---

	Last Name	First Name
<b>Search Another: Inventor</b>	<input type="text" value="Johnston"/>	<input type="text" value="Jeffrey"/>
	<input type="button" value="Search"/>	

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)